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| FORM PTO-1390<br>(REV. 12-2004)   |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTORNEY'S DOCKET NUMBER<br><b>1454.1666</b>                        |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371  |  |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/564832</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/DE2004/001455  | INTERNATIONAL FILING DATE<br>7 July 2004 | PRIORITY DATE CLAIMED<br>17 July 2003                   |   |
| TITLE OF INVENTION<br>NONLINEAR PRECODING METHOD FOR A DIGITAL BROADCAST CHANNEL  |  |   |   |
| APPLICANT(S) FOR DO/EO/US<br>Robert FISCHER et al.  |  |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |  |   |   |
| <p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> is attached hereto.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input checked="" type="checkbox"/> A substitute specification, including a marked-up copy.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input checked="" type="checkbox"/> A copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: PCT/ISA/220; PCT/ISA 210; PCT/IB/306; PCT/ISA/237 and PCT/Supplement/237</p> |  |   |   |

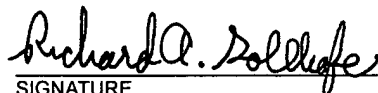
|   |              |  |            |                                       |                 |
|---|--------------|--|------------|---------------------------------------|-----------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/564832</b>   |              | INTERNATIONAL APPLICATION NO.<br>PCT/DE2004/001455 |            | ATTORNEY'S DOCKET NUMBER<br>1454.1666 |                 |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:   |              |  |            | APPLICANT USE                         | OFFICE USE ONLY |
| <input checked="" type="checkbox"/> a) Basic National Fee ..... \$300.00  |              |  |            | \$300.00                              |                 |
| 22. <input checked="" type="checkbox"/> b) Examination Fee<br>If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1) - (4) ..... \$0<br>All other situations ..... \$200.00   |              |  |            | \$200.00                              |                 |
| 23. <input checked="" type="checkbox"/> c) Search Fee (37 CFR 1.492(b))<br>If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1) - (4) ..... \$0<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Search Authority....\$100<br>International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ..... \$400<br>All other situations ..... \$500<br>TOTAL OF ABOVE CALCULATIONS = \$ *** |              |  |            | \$500.00                              |                 |
|   |              |  |            | \$1,000.00                            |                 |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each addition 50 sheets of paper or fraction thereof.  |              |  |            |                                       |                 |
| Total Sheets-   | Extra Sheets | Number of each additional 50 or fraction thereof   | Rate       |                                       |                 |
| * - 100 =   | */50=        |  | X 250.00   | 0.00                                  |                 |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).  |              |  |            | \$                                    |                 |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA                                       | RATE       | \$                                    |                 |
| Total claims  | 4- 20 =      | 0  | x \$50.00  | \$0.00                                |                 |
| Independent claims  | 1- 3 =       | 0  | X \$200.00 | \$0.00                                |                 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |  | + \$360.00 | \$                                    |                 |
| TOTAL OF ABOVE CALCULATIONS =   |              |  |            | \$                                    |                 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |  |            | \$                                    |                 |
| SUBTOTAL =  |              |  |            | \$                                    |                 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492)(i).   |              |  |            | \$                                    |                 |
| TOTAL NATIONAL FEE =  |              |  |            | \$                                    |                 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +  |              |  |            | \$40.00                               |                 |
| TOTAL FEES ENCLOSED =   |              |  |            | \$1,040.00                            |                 |
| Amount to be refunded:  |              |  |            |                                       | \$              |
| Amount to be charged:   |              |  |            |                                       | \$              |

- a. ☒ A check in the amount of \$1,040.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-3935. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Staas & Halsey LLP  
1201 New York Avenue, N.W., Suite 700  
Washington, DC 20005



SIGNATURE

Richard A. Gollhofer

NAME

1/17/06

Date

31, 106

REGISTRATION NUMBER